

## EAST Search History

| Ref # | Hits  | Search Query  | DBs   | Default Operator | Plurals | Time Stamp          |
|-------|-------|---|---|------------------|---------|---------------------|
| L1    | 49    | ("4486897"   "4862099"  <br>"5151926"   "5440269"  <br>"5614862"   "6356598"  <br>"6476878"   "6512555"  <br>"6542203"   "6611571"  <br>"6707861"   "6760076"  <br>"6771707"   "6810084"  <br>"6879647"   "6937671"  <br>"6972632"   "7098967"  <br>"7119856"   "7167215"  <br>"7272197"   "7403579").PN. | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR               | ON      | 2009/07/05<br>01:20 |
| L2    | 0     | 1 and (PCM or (pulse adj code<br>\$1))  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR               | ON      | 2009/07/05<br>01:20 |
| L3    | 3     | 1 and transition  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2009/07/05<br>01:23 |
| L4    | 20705 | "708"/\$.ccls. and<br>@ad<"20030730"  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR               | ON      | 2009/07/05<br>01:24 |
| L5    | 209   | L4 and approximat\$3 and<br>demodulat\$3 and error\$1 and<br>quadrature and phase\$1  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR               | ON      | 2009/07/05<br>01:24 |
| L6    | 204   | L5 and (frequency or FM)  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR               | ON      | 2009/07/05<br>01:24 |
| L7    | 118   | L6 and estimat\$3   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR               | ON      | 2009/07/05<br>01:24 |
| L8    | 72    | L7 and (invers\$3 or reciprocal)  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR               | ON      | 2009/07/05<br>01:24 |

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| S1  | 109568 | (david.in. or wu.in.) and<br>approximat\$3                                  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/20<br>19:26 |
| S2  | 85787  | S1 and @ad<"20030730"   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/19<br>14:22 |
| S3  | 2183   | S2 and quadrature   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/06<br>10:39 |
| S4  | 1880   | S3 and phase\$1   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/06<br>10:40 |
| S5  | 32     | S4 and "708"/\$.ccls.   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/06<br>10:40 |
| S6  | 0      | (david.in. and wu.in.) and S5   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/06<br>10:41 |
| S7  | 10     | (david.in. and wu.in.) and S4   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/06<br>10:41 |
| S8  | 20081  | "708"/\$.ccls. and<br>@ad<"20030730"  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/06<br>10:43 |
| S9  | 1343   | S8 and (approximat\$3.ti. or<br>approximat\$3.clm. or<br>approximat\$3.ab.) | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/06<br>10:43 |
| S10 | 592    | S9 and (invers\$3 or reciprocal)  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/19<br>10:48 |
| S11 | 66     | S10 and quadrature  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/06<br>10:43 |

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| S12 | 58   | S11 and phase\$1   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/06<br>10:51 |
| S13 | 202  | S8 and approximat\$3 and demodulat\$3 and error\$1 and quadrature and phase\$1                                       | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/06<br>10:52 |
| S14 | 198  | S13 and (frequency or FM)  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/06<br>13:00 |
| S15 | 112  | S14 and estimat\$3   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/06<br>10:54 |
| S16 | 66   | S15 and (invers\$3 or reciprocal)  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/06<br>11:03 |
| S17 | 402  | ((FM or (frequency adj modulation)) adj demodulation) and @ad<"20030730" and (approximat\$3 or estimat\$3) and error | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/06<br>11:04 |
| S18 | 3    | S17 and "708"/\$.ccls.   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/06<br>11:11 |
| S19 | 97   | 708/502,654.ccls. and @ad<"20030730"   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/06<br>11:11 |
| S20 | 1    | S19 and quadrature   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/06<br>11:12 |
| S21 | 3    | ("4893316"   "5623521"   "5757858").PN. OR ("6002726").URPN.   | US-PGPUB;<br>USPAT; USOCR                                      | OR | ON | 2006/07/06<br>11:13 |
| S22 | 7720 | S8 and (frequency or FM)   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/06<br>13:00 |

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| S23 | 899 | S22 and quadrature  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/06<br>13:00 |
| S24 | 817 | S23 and phase\$1  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/06<br>13:00 |
| S25 | 397 | S24 and 708/200,290,300-<br>323,490,502,650,654-656.ccls. | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/06<br>13:01 |
| S26 | 300 | S25 and (approximat\$3 or<br>estimat\$3)                  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/06<br>13:02 |
| S27 | 248 | S26 and \$2modulat\$3                                     | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/06<br>13:02 |
| S28 | 207 | S27 and error\$1  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/06<br>13:03 |
| S29 | 120 | S28 and gain\$1   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/22<br>19:06 |
| S30 | 2   | S29 and S17   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/06<br>13:05 |
| S31 | 15  | S29 and Fm  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/06<br>13:05 |
| S32 | 3   | "7006806".pn.   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/19<br>10:17 |
| S33 | 13  | david.in. and chaohua.in. and<br>wu.in.                   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/19<br>10:19 |

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| S34 | 45    | 708/502.ccls.  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/19<br>10:25 |
| S35 | 11215 | (FM or (frequency adj modulat<br>\$3)) and quadrature  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/19<br>10:45 |
| S36 | 183   | ((FM or (frequency adj modulat<br>\$3)) and quadrature) and "708"/<br>\$.ccls.   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/19<br>10:26 |
| S37 | 166   | S36 and @ad< "20030730"  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/19<br>10:46 |
| S38 | 116   | S37 and error\$1   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/19<br>10:46 |
| S39 | 3     | ("4893316"   "5623521"  <br>"5757858").PN. OR ("6002726").<br>URPN.  | US-PGPUB;<br>USPAT; USOCR                                      | OR | ON | 2006/07/19<br>10:31 |
| S40 | 3188  | ((demodulat\$ or de-modulat\$3<br>or (de adj modulat\$3)).ti. or<br>(demodulat\$ or de-modulat\$3<br>or (de adj modulat\$3)).clm. or<br>(demodulat\$ or de-modulat\$3<br>or (de adj modulat\$3)).ab.) and<br>S35 | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/19<br>10:46 |
| S41 | 2829  | S40 and @ad< "20030730"  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/19<br>10:46 |
| S42 | 1796  | S41 and error\$1   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/19<br>10:47 |
| S43 | 1133  | approximat\$3 and S42  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/19<br>10:47 |
| S44 | 560   | S43 and (invers\$3 or reciprocal)  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/19<br>10:48 |

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| S45 | 177 | (FM.ti. or FM.clm. or FM.ab.) and S43  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/19<br>10:48 |
| S46 | 7   | ("4787056"   "5629885"   "6298368"   "6301598"   "RE35365").PN. OR ("6463452").URPN.   | US-PGPUB;<br>USPAT; USOCR                                      | OR | ON | 2006/07/19<br>10:51 |
| S47 | 3   | ("4893316"   "5623521"   "5757858").PN. OR ("6002726").URPN.   | US-PGPUB;<br>USPAT; USOCR                                      | OR | ON | 2006/07/19<br>14:21 |
| S48 | 549 | (sap or (secondary adj audio adj program\$1)) and (FM or (frequency adj modulation))   | US-PGPUB;<br>USPAT; USOCR                                      | OR | ON | 2006/07/19<br>14:22 |
| S49 | 52  | S48 and (band adj pass)  | US-PGPUB;<br>USPAT; USOCR                                      | OR | ON | 2006/07/19<br>14:23 |
| S50 | 38  | S49 and @ad<"20030730"   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/19<br>14:22 |
| S51 | 62  | ((secondary adj audio adj program\$1)) and (FM or (frequency adj modulation))  | US-PGPUB;<br>USPAT; USOCR                                      | OR | ON | 2006/07/19<br>14:22 |
| S52 | 50  | S51 and @ad<"20030730"   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/22<br>19:06 |
| S53 | 5   | S52 and (band adj pass)  | US-PGPUB;<br>USPAT; USOCR                                      | OR | ON | 2006/07/19<br>16:00 |
| S54 | 1   | "20030085993"  | US-PGPUB;<br>USPAT; USOCR                                      | OR | ON | 2006/07/19<br>16:00 |
| S55 | 16  | @ad<"20030730" and filter\$3 and (pcm or (pulse adj code adj modulation)) and (sap or (secondary adj audio adj program\$1)) and (fm or (frequency adj modulation)) | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/20<br>20:07 |
| S56 | 2   | "20040006581"  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/20<br>19:59 |
| S57 | 2   | "20050027771"  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/20<br>19:59 |

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| S58 | 82    | 708/300-323.ccls. and @ad<"20030730" and hilbert  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/20<br>20:03 |
| S59 | 4     | 708/300-323.ccls. and @ad<"20030730" and hilbert and fm   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/20<br>20:05 |
| S60 | 53    | @ad<"20030730" and (hilbert adj filter\$1) and fm   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/20<br>20:05 |
| S61 | 63    | @ad<"20030730" and (hilbert adj filter\$1) and (fm or (frequency adj modulation))   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/20<br>20:05 |
| S62 | 9     | S61 and (pcm or (pulse adj code adj modulation))  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/20<br>20:10 |
| S63 | 14    | (US-20030085993-\$ or US-20030162500-\$).did. or (US-5949821-\$ or US-4893316-\$ or US-6154483-\$ or US-7006806-\$ or US-6002726-\$ or US-6463452-\$ or US-6370191-\$ or US-6337878-\$ or US-6490727-\$ or US-5357284-\$ or US-5293633-\$ or US-4866775-\$). did. | US-PGPUB;<br>USPAT   | OR | ON | 2007/01/20<br>20:10 |
| S64 | 9     | S62 and (pcm or (pulse adj code adj modulation))  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/20<br>20:32 |
| S65 | 16187 | ((pcm or (pulse adj code adj modulation)).ti. or (pcm or (pulse adj code adj modulation)).clm. or (pcm or (pulse adj code adj modulation)).ab.) and @ad<"20030730"  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/20<br>20:28 |
| S66 | 689   | S65 and (fm or (frequency adj modulation))  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/20<br>20:32 |

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| S67 | 1      | S66 and (sap or (secondary adj audio adj program\$1))  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/20<br>20:30 |
| S68 | 200    | S66 and filter\$3  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/20<br>20:30 |
| S69 | 1      | S68 and "708"/\$.cls.  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/20<br>20:31 |
| S70 | 2      | S66 and "708"/\$.cls.  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/20<br>20:31 |
| S71 | 328    | filter\$3 and "708"/\$.cls. and @ad<"20030730" and (pcm or (pulse adj code adj modulation))  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/20<br>20:32 |
| S72 | 174    | filter\$3 and "708"/300-323.cls. and @ad<"20030730" and (pcm or (pulse adj code adj modulation))   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/20<br>20:32 |
| S73 | 135550 | 24and (fm or (frequency adj modulation))   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/20<br>20:32 |
| S74 | 4      | S72 and (fm or (frequency adj modulation))   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/01/20<br>20:32 |
| S75 | 0      | ("2003/0162500").URPN.   | USPAT  | OR | ON | 2007/10/22<br>18:50 |
| S76 | 1      | (10/083076).APP.   | USPAT; USOCR   | OR | ON | 2007/10/22<br>18:50 |
| S77 | 13     | ("4486897"   "4506228"   "4628539"   "4716589"   "4803700"   "4862099"   "5151926"   "5404405"   "5440269"   "5614862"   "6356598"   "6476878"   "6611571").PN. OR ("7006806").URPN. | US-PGPUB;<br>USPAT; USOCR                                      | OR | ON | 2007/10/22<br>18:52 |
| S78 | 8      | ("4652838"   "5249203").PN. OR ("5404405").URPN.   | US-PGPUB;<br>USPAT; USOCR                                      | OR | ON | 2007/10/22<br>19:02 |

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| S79 | 3303  | audio and filter\$1 and modul\$3<br>and quadrature and<br>@ad<"20030730" | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/22<br>19:05 |
| S80 | 488   | S79 and (pcm or (pulse\$1 adj<br>code\$1))                               | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/22<br>19:05 |
| S81 | 77    | S80 and hilbert\$1   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/22<br>19:05 |
| S82 | 20524 | "708"/\$.ccls. and<br>@ad<"20030730"                                     | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR | ON | 2007/10/22<br>19:06 |
| S83 | 7949  | S82 and (frequency or FM)  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR | ON | 2007/10/22<br>19:06 |
| S84 | 927   | S83 and quadrature   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR | ON | 2007/10/22<br>19:06 |
| S85 | 842   | S84 and phase\$1   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR | ON | 2007/10/22<br>19:06 |
| S86 | 413   | S85 and 708/200,290,300-<br>323,490,502,650,654-656.ccls.                | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR | ON | 2007/10/22<br>19:06 |
| S87 | 312   | S86 and (approximat\$3 or<br>estimat\$3)                                 | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR | ON | 2007/10/22<br>19:06 |
| S88 | 259   | S87 and \$2modulat\$3  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR | ON | 2007/10/22<br>19:06 |

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| S89 | 217   | S88 and error\$1  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR | ON | 2007/10/22<br>19:06 |
| S90 | 125   | S89 and gain\$1   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR | ON | 2007/10/22<br>19:06 |
| S91 | 70    | ((secondary adj audio adj<br>program\$1)) and (FM or<br>(frequency adj modulation)) | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2007/10/22<br>19:06 |
| S92 | 52    | S91 and @ad< "20030730"   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR | ON | 2007/10/22<br>19:06 |
| S93 | 21936 | david and wu  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/08/13<br>16:04 |
| S94 | 5013  | S93 and frequency and modulat<br>\$3  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/08/13<br>16:05 |
| S95 | 42    | S94 and filter and PCM  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/08/13<br>16:05 |
| S96 | 2     | (david and wu).in. and S95  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/08/13<br>16:06 |
| S97 | 0     | chat.xa,xp. and sap   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/08/13<br>16:07 |
| S98 | 2     | "4716589".pn.   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/05<br>19:11 |

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|------|--------|--|--|----|----|---------------------|
| S99  | 20663  | "708"/\$.ccls. and<br>@ad<"20030730"   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/05<br>19:13 |
| S100 | 1404   | S99 and (approximat\$3.ti. or<br>approximat\$3.clm. or<br>approximat\$3.ab.)               | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/05<br>19:13 |
| S101 | 629    | S100 and (invers\$3 or<br>reciprocal)  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/05<br>19:13 |
| S102 | 69     | S101 and quadrature  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/05<br>19:13 |
| S103 | 61     | S102 and phase\$1  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/05<br>19:13 |
| S104 | 137513 | (david.in. or wu.in.) and<br>approximat\$3   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/05<br>19:13 |
| S105 | 88852  | S104 and @ad<"20030730"  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/05<br>19:13 |
| S106 | 2321   | S105 and quadrature  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/05<br>19:13 |
| S107 | 1996   | S106 and phase\$1  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/05<br>19:13 |
| S108 | 33     | S107 and "708"/\$.ccls.  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/05<br>19:13 |
| S109 | 836    | (sap or (secondary adj audio<br>adj program\$1)) and (FM or<br>(frequency adj modulation)) | US-PGPUB;<br>USPAT; USOCR                                      | OR | ON | 2009/03/30<br>01:25 |

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|------|-----|--|---|----|----|---------------------|
| S110 | 856 | (sap or (secondary adj audio<br>adj program\$1)) and (FM or<br>(frequency adj modulation)) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/30<br>01:26 |
| S111 | 0   | sap and filter\$3 and hibert and<br>"708"/\$.ccls.   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/30<br>01:26 |

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